

AMENDMENT TO THE CLAIMS

Claims Listing

Claims 1-17 (canceled)

Claims 18-23 (new)

Claims

1-17 Cancelled

18. A process for the direct, economic preparation of ditertiary butyl peroxide comprising,
 - a. reacting tertiary butyl hydroperoxide with tertiary butyl alcohol,
 - b. without substantial water removal,
 - c. at temperatures of 50 to 120 C,
 - d. optionally with isobutylene,
 - e. in the presence of an effective amount of an acidic, at least 10% cross-linked ion exchange resin catalyst, and
 - f. removing the product effluent from catalyst for use.
19. The process of claim 18 wherein the said resin is at least 20% cross-linked polystyrene-divinyl benzene acidic resin.
20. A process for the direct, economic preparation of ditertiary butyl peroxide comprising,
 - a. reacting an isobutane oxidate containing tertiary butyl hydroperoxide and tertiary butyl alcohol,
 - b. without substantial water removal,
 - c. at temperatures of 50 to 120 C,
 - d. optionally with added tertiary butanol and/or isobutylene,
 - e. in the presence of an effective amount of an acidic, at least 10% cross-linked ion exchange resin catalyst, and
 - f. removing the product effluent from catalyst for use.

21. The process of claim 20 wherein the said resin is at least 20% cross-linked polystyrene-divinyl benzene acidic resin.
22. A process for the direct, economic preparation of ditertiary butyl peroxide which comprises,
 - a. reacting an isobutane stripped isobutane oxidate containing 30 to 75 weight % tertiary butyl hydroperoxide and tertiary butanol,
 - b. without substantial water removal,
 - c. at temperatures of 50 to 120 C,
 - d. optionally with added tertiary butanol and/or isobutylene,
 - e. in the presence of an effective amount of an acidic, at least 10% cross-linked ion exchange resin catalyst, and
 - f. removing the product effluent from catalyst for use.
23. The process of claim 22 wherein the said resin is at least 20% cross-linked polystyrene-divinyl benzene acidic resin.

Respectfully submitted,

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NOTE - ADDRESS CHANGE